THE RECOVERY KERNEL

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[illegible]	[illegible]...[illegible]	**ΔFosB [illegible]**	[illegible]
[illegible] ([illegible] D2 [illegible])	[illegible] D2 [illegible] striatum [illegible]	[illegible] ΔFosB [illegible] AP-1 [illegible] striatum (dSPN) [illegible]	[illegible]
[illegible] [illegible]	[illegible] DAT/NET [illegible]	[illegible] [illegible]	[illegible]
[illegible] [illegible]	[illegible] μ-[illegible]	[illegible] [illegible] OAT[illegible] [illegible]	[illegible] — [illegible] [illegible]
[illegible]	[illegible] GABA-A [illegible]	[illegible]——[illegible] GABA-A [illegible]/[illegible] [illegible] ΔFosB [illegible]	[illegible]
SSRIs / SNRIs	[illegible] — [illegible]/[illegible] [illegible]	[illegible] ΔFosB[illegible] [illegible] 12 [illegible] ΔFosB [illegible]	[illegible] [illegible]

[illegible] **ΔFosB** [illegible]

[illegible]

[illegible] ΔFosB [illegible]/GABA [illegible] MTHFR/MAOA [illegible] 6 [illegible] 4 [illegible] ΔFosB [illegible]

[illegible]	[illegible]	[illegible] **ΔFosB** [illegible]
P5P ([illegible]-5'-[illegible] B6)[illegible]	[illegible] B6 [illegible] AADC[illegible] L-[illegible] 5-HTP [illegible] GABA[illegible] B6 [illegible] GABA [illegible]	[illegible] D1/PKA/CREB [illegible] FOSB [illegible] 6 [illegible] 3 [illegible]—— [illegible] [illegible][illegible]
R5P ([illegible]-5'-[illegible] — [illegible] B2 / FMN)	[illegible] MTHFR[illegible] C677T [illegible] [illegible] FAD[illegible] MAOA[illegible]	ΔFosB [illegible] MTHFR [illegible] MAOA [illegible] ΔFosB [illegible] [illegible] ([illegible] 6 [illegible] 4 [illegible])[illegible][illegible]
[illegible]	[illegible] NMDA [illegible] [illegible] NMDA [illegible] influx [illegible] CaMKII[illegible]	CaMKII [illegible] CK2 [illegible] CK2 [illegible] ΔFosB [illegible] Ser27 [illegible] 1 [illegible] [illegible] [illegible] ΔFosB [illegible] [illegible][illegible]

[illegible] ΔFosB [illegible] 3 [illegible] GABA [illegible]

6. [illegible] — [illegible]

ΔFosB [illegible]

[redacted] FOSB [redacted]

[redacted]nucleus accumbens[redacted]

[redacted]	[redacted]	[redacted]	[redacted]
FOSB Ser27Ala (S27A)	[redacted] 27 [redacted] — CK2 [redacted]	[redacted] ΔFosB [redacted]	[redacted] ([redacted])[redacted]
FOSB Ser27Glu (S27E) — [redacted]	[redacted]—— [redacted]	[redacted] CK2 [redacted]	[redacted] ([redacted])[redacted]
FOSB [redacted] 4/[redacted] 4 [redacted]	[redacted] PCBP1/SMAD3 [redacted]	[redacted] degron [redacted] FosB [redacted] ΔFosB [redacted]	[redacted]

[redacted]

[redacted] ΔFosB [redacted] [redacted] ΔFosB [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
CSNK2A1 / CSNK2B (CK2 [redacted])	[redacted] ΔFosB [redacted] Ser27 [redacted]	[redacted] CK2 [redacted] ΔFosB [redacted]	[redacted]
PCBP1 / SMAD3	[redacted] ΔFosB [redacted]	[redacted] FosB [redacted] ΔFosB [redacted]	[redacted]
ACVR1B (ALK4 [redacted])	SMAD3/PCBP1 [redacted] [redacted] D1 [redacted]	[redacted] ΔFosB [redacted] ΔFosB [redacted]	[redacted] ([redacted])[redacted]

[redacted] — [redacted]

[redacted] ΔFosB [redacted] ΔFosB [redacted]

[redacted] / [redacted]	[redacted]	[redacted] **ΔFosB** [redacted]	[redacted] — [redacted]
DRD1 ([redacted] D1 [redacted]) [redacted]	D1 [redacted] PKA/CREB [redacted] FOSB [redacted]	[redacted]	[redacted]——[redacted] ΔFosB [redacted]
CHRNB2 rs2072661	[redacted] 3' UTR [redacted]	[redacted] ΔFosB [redacted]	[redacted] ΔFosB [redacted]ΔFosB [redacted]
DBH rs1541333	[redacted] β-[redacted]	[redacted]/[redacted] ΔFosB [redacted]	[redacted] ΔFosB[redacted]

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[redacted] DNA [redacted] 23andMe [redacted]Recovery Kernel[redacted] ΔFosB [redacted]

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COMT	□□□□□□/□□□□□□□□□□□□□□□□□□□□ Val/Val = □□□□□□Met/Met = □□□□□□□	□□□□□□□□□□□□□□□□□□□□

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